

Madison K. Rivard, MPH, NREMT

madisonrivard@gmail.com • (774) 277-1545

Education

Master of Public Health Dec 2019
The Ohio State University, Columbus, OH
Specialization: Health Behavior and Health Promotion, Track: Health Disparities

Bachelor of Science: Major in Public Health, Minor in Sustainability
Simmons University, Boston, MA May 2017
Semester Abroad: Community Public Health, University of Botswana Jan – Jun 2016

Professional Experience

Case Investigator/Unit Lead, Community Tracing Collaborative, Partners in Health Apr 2020 – present

- Interview positive COVID cases on demographics, symptoms, resource needs and contacts
- Supervise unit including troubleshooting, training, timesheet approval and scheduling
- Collaborate with care resource coordinators, supervisors, and external stakeholders for coordination of supplies and support for those in need during isolation & quarantine
- Demonstrated capability and empathy working with vulnerable and underserved populations

Emergency Medical Technician, South Shore Health, Weymouth, MA Mar 2020 – present

- Provide patient care with clear, empathetic communication
- Conduct medical assessments and interventions for emergency and transport calls
- Assess the nature of illness and devised plan of care on an immediate basis
- Clean, document and maintain equipment and PPE in vehicles for safe and effective operation

Research Fellow, National Registry of Emergency Medical Technicians Jul 2017 – Jan 2020

- Project conceptualization, design, data collection, analysis, and publication of scientific research
- Present oral and poster presentations at national EMS conferences
- Maintain operations for internal projects as well as train and supervise junior research fellows
- Collaborate with clinical & academic researchers to conduct studies

Emergency Medical Technician, Fallon Ambulance Service, Quincy, MA Sep 2015 – Jun 2017

- Conducted patient assessments and interventions for emergency and transport calls
- Devise plan of care with clear communication and empathy for the patient
- Provided verbal report and electronic documentation of patient status to ED staff
- Maintained equipment and tools in assigned vehicles for safe and effective operation

Intern, OT 4 Kids, Gaborone, Botswana Jan – Jun 2016

- Conducted Perceptual Motor Program, twelve-week pilot program
- Research working with class of 30 kids ages 4-6 for sessions involving motor activities
- Worked closely with Occupational Therapist and monitored each child's progress
- Performed continued assessments for Visual Motor Integration and body-spatial awareness

Intern, Small World Initiative at Simmons University, Boston, MA Sep 2016 – May 2017

- Conducted research for new antibiotics into the college's microbiology curriculum
- Performed experiments on soil samples for evidence of antibiotic producing-microbes
- Troubleshooting for the laboratory procedures of SWI curriculum
- Regular data collection, inventory of biological materials, and laboratory maintenance

Madison K. Rivard, MPH, NREMT

madisonrivard@gmail.com • (774) 277-1545

Awards & Accolades

National Society of Academic Excellence- The Ohio State University	Fall 2019
Dean's List Honors- Simmons University	Fall 2014, Fall 2015, Fall 2016, Spring 2017
Sigma Xi Scientific Research Honor Society	December 2017
NCAA DIII Sportsmanship Award Recipient	November 2016
Team Captain Award	November 2016

Professional Affiliations

Member, American Public Health Association	2018 - Present
Member, National Association of Emergency Medical Services Physicians	2017 – Present

Certifications

CITI Training (Responsible Conduct of Research, Human Research)	Exp. 2021
Emergency Medical Technician (NREMT Certification)	Exp. 2021
Emergency Medical Technician (MA License)	Exp. 2021
American Heart Association Basic Life Support (BLS) Provider	Exp. 2022

Presentations

Conferences

1. "National Description of Behavioral Health Emergencies Treated by Emergency Medical Services." National Association of EMS Physicians Annual Meeting. Oral presentation. San Diego, CA. January 10, 2020.
2. "Cancer Among Emergency Medical Services Professionals: Cross-Sectional Evaluation Of Self-Reported Cancer." National Association of EMS Physicians Annual Meeting. Poster presentation. San Diego, CA. January 10, 2020.
3. "Economic Dependence on Additional Work and the Association with Workforce-Reducing Factors among Emergency Medical Service Professionals." Ohio State University College of Public Health Research Day. Poster presentation. Columbus, OH. April 1, 2019.
4. "Dependence on Overtime or Multiple Jobs Is Associated With Workforce-Reducing Factors Among EMS Professionals" National Association of EMS Physicians Annual Meeting. Austin, TX. Oral Presentation. January 11, 2019.
5. "Characteristics of Nationally-Certified Prehospital Patient Care Providers in the United States." National Association of EMS Physicians Annual Meeting. Austin, TX. Poster Presentation. January 11, 2019.
6. "Motivations for Exiting the EMS Profession Differ between EMTs and Paramedics" National Association of EMS Physicians Annual Meeting. San Diego, CA. Oral Presentation. January 11, 2018.
7. "Characteristics Associated with Success on the National AEMT Certification Examination." National Association of EMS Physicians Annual Meeting. Poster presentation. January 11, 2018.

Madison K. Rivard, MPH, NREMT

madisonrivard@gmail.com • (774) 277-1545

8. "Small World Initiative at Simmons College: The Implementation of a New Hands-On Research Lab with a Focus on Antibiotic Research and Development." Annual Eastern New England Biological Conference. April 29, 2017.

Other

1. Contributor. "Medic2Medic Podcast" Podcast. March 20, 2020. [invited] <https://www.spreaker.com/user/medic2medic/madison-rivard>
2. Contributor. "PCRF Journal Club: Exiting the EMS Profession and Characteristics Associated with Intent to Return to Practice." Prehospital Care Research Forum Podcast. January 13, 2020. [invited] <https://info.psglearning.com/download-jan-pcrf-2020>
3. Lecturer. Transgender Health. PUBHEPI 6441 Women's Health Issues. The Ohio State University. Columbus, OH. November 20, 2019.
4. Presenter. EMS Workforce and Research Presentation to Virginia Office of EMS. National Registry of Emergency Medical Technicians. Columbus, OH. August 26, 2019.
5. Presenter. "Cultural Awareness in Emergency Medical Services" Worthington Fire Department, OSU Center for EMS, Columbus, OH. February 12, 2018.

Publications

Peer Reviewed

1. **Rivard MK**, Cash RE, Chrzan K, G Kaye, Salsberry P, Panchal AR. American Journal of Public Health. Public Health Surveillance of Behavioral Health Emergencies Through Emergency Medical Services Data. (under review)
2. **Rivard MK**, Cash RE, Chrzan K, Panchal AR. Demography of the National Emergency Medical Services Workforce: A Description of Those Providing Patient Care in the Prehospital Setting. Prehospital Emergency Care. (Epub ahead of print). <https://doi.org/10.1080/10903127.2020.1737282>
3. **Rivard MK**, Cash RE, Chrzan K, Panchal AR. Impact of Working Overtime or Multiple Jobs in Emergency Medical Services. Prehospital Emergency Care. (Epub ahead of print). <https://doi.org/10.1080/10903127.2019.1695301>
4. **Rivard MK**, Cash RE, Chrzan K, Panchal AR. A Comprehensive Description of the Advanced Emergency Medical Technician Certification Level. Prehospital Emergency Care. 2019. (Epub ahead of print) <https://doi.org/10.1080/10903127.2019.1639862>
5. **Rivard MK**, Cash RE, Woodyard KC, Crowe RP, Panchal AR. The Intentions and Motivations for Exiting the Emergency Medical Services Profession Differ Between Emergency Medical Technicians and Paramedics. Journal of Allied Health (accepted).
6. Supples MW, **Rivard MK**, Cash RE, Chrzan K, Panchal AR, McGinnis HE. Barriers to Physical Activity Among Emergency Medical Services Professionals. Prehospital Emergency Care. 2020. (Under review)
7. Cash RE, Anderson SE, Lancaster KE, Lu B, **Rivard MK**, Camargo CA, Panchal AR. Comparing the prevalence of poor sleep and stress metrics in basic versus advanced life

Madison K. Rivard, MPH, NREMT

madisonrivard@gmail.com • (774) 277-1545

- support emergency medical services personnel. Prehospital Emergency Care. 2020. (Epub ahead of print) <https://doi.org/10.1080/10903127.2020.1758259>
8. Cash RE, **Rivard MK**, Mercer CB, Chrzan K, Camargo C, Panchal AR. Comparison of Volunteer and Paid EMS Professionals in the United States. Prehospital Emergency Care. 2020. (Epub ahead of print). <https://doi.org/10.1080/10903127.2020.1752867>
 9. Campos A, Ernest EV, Cash RE, **Rivard MK**, Panchal AR, Clemency BM, Swor RA, Crowe RP. The Association of Death Notification and Related Training with Burnout among Emergency Medical Services Professionals. Prehospital Emergency Care. 2020. (under review)
 10. Garner, DG, DeLuca M, Crowe RP, Cash RE, **Rivard MK**, Williams J, Panchal AR, Cabanas, JG. Emergency Medical Services Provider Behaviors with Violent Encounters: A Prospective Study Using Standardized Simulated Scenarios. Prehospital Emergency Care. 2020. (under review)
 11. Crowe RP, Krebs W, Cash RE, **Rivard MK**, Panchal AR. Females and Minority Racial/Ethnic Groups Remain Underrepresented in Emergency Medical Services: A Ten-Year Assessment, 2008–2017. Prehospital Emergency Care. 2019;Jul 24:1-8. <https://doi.org/10.1080/10903127.2019.1634167>
 12. Cash RE, Kinsman JM, Crowe RP, **Rivard MK**, Faul M, Panchal AR. Naloxone Administration Frequency During Emergency Medical Service Events, 2012-2016. Morbidity and Mortality Weekly Report. 2018;67:850-853. <http://dx.doi.org/10.15585/mmwr.mm6731a2>
 13. Guglio M, Cash RE, **Rivard MK**, Cotto J, Crowe RP, Panchal AR. Development and Validation of Content Domains for Paramedic Prehospital Performance Assessment: A Focus Group and Delphi Method Approach. Prehospital Emergency Care. (Epub ahead of print). <https://doi.org/10.1080/10903127.2020.1750743>
 14. Crowe RP, Fernandez AR, Pepe PE, Cash RE, **Rivard MK**, Wronski R, Anderson SE, Hogan TH, Andridge RR, Panchal AR, Ferketich AK. The Association of Job Demands and Resources with Burnout Among Emergency Medical Services Professionals. Journal of the American College of Emergency Physicians Open. 2020;1–11. <https://doi.org/10.1002/emp2.12014>
 15. Cash RE, E Crowe, Crowe RP, **Rivard MK**, Knorr A, Panchal AR, Kupas D. Seat Belt Use in the Ambulance Patient Compartment by Emergency Medical Services Professionals is Low Regardless of Patient Presence, Seating Position, or Patient Acuity. Journal of Safety Research. 2019; 71:173-180. <https://doi.org/10.1016/j.jsr.2019.10.003>
 16. Cash RE, White-Mills K, Crowe RP, **Rivard MK**, Panchal AR. Incivility among Nationally Certified EMS Professionals and Associations with Workforce-Reducing Factors and Organizational Culture. Prehospital Emergency Care. 2018; 23(3):346-355. <https://doi.org/10.1080/10903127.2018.1502383>

Madison K. Rivard, MPH, NREMT

madisonrivard@gmail.com • (774) 277-1545

1. **Rivard MK**, Chrzan K, Cash RE, Mercer CB, Panchal AR. A National Description Of Behavioral Health Emergencies Treated By Emergency Medical Services. Prehospital Emergency Care. 2020. 24(1):104.
2. Supples M, **Rivard MK**, Cash RE, Chrzan K, Panchal AR, McGinnis H. Barriers To Physical Activity Among Emergency Medical Services Professionals. Prehospital Emergency Care. 2020. 24(1):104.
3. Cash RE, Anderson S, **Rivard MK**, Chrzan K, Lancaster K, Lu B, Panchal AR. Comparing The Prevalence Of Poor Sleep And Stress Metrics In Basic And Advanced Life Support Emergency Medical Services Professionals. Prehospital Emergency Care. 2020. 24(1):112.
4. Cash RE, Anderson S, **Rivard MK**, Chrzan K, Lancaster K, Lu B, Panchal AR. Associations Between Sleep, Stress, And Ideal Cardiovascular Health Among Emergency Medical Services Professionals. Prehospital Emergency Care. 2020. 24(1):118.
5. Chrzan K, Cash RE, **Rivard MK**, Mercer CB, Panchal AR. Describing Pediatric Vascular Access In The Prehospital Setting. Prehospital Emergency Care. 2020. 24(1):111.
6. Cyr J, Hutchens E, **Rivard MK**, Cash RE, Chrzan K, Panchal AR, Brice J. Characterizing Use And Interest Of Social Media Among EMS Professionals. Prehospital Emergency Care. 2020. 24(1):113.
7. Chrzan K, Cash RE, **Rivard MK**, Panchal AR. Odds Of Retesting After An Unsuccessful Initial Attempt On The National Registry Emergency Medical Technician And Paramedic Cognitive Examinations. Prehospital Emergency Care. 2020. 24(1):116.
8. Chrzan K, Cash RE, **Rivard MK**, Mercer CB, Panchal AR. National Assessment Of Prehospital Tasks Authorized At The AEMT And Paramedic Levels Compared To The 2019 National Ems Scope Of Practice Model. Prehospital Emergency Care. 2020. 24(1):152.
9. Hood R, Cash RE, Chrzan K, Mercer CB, **Rivard MK**, Panchal AR. Cancer Among Emergency Medical Services Professionals: Cross-Sectional Evaluation Of Self-Reported Cancer. Prehospital Emergency Care. 2020. 24(1):115.
10. Mercer CB, Ball M, Chrzan K, Cash RE, **Rivard MK**, Mollers R, Panchal AR. National Comparison Of The Army Combat Medic Specialists' Scope Of Practice To Civilian EMS Certification Levels. Prehospital Emergency Care. 2020. 24(1):102.
11. Moungey B, Mercer CB, Chrzan K, **Rivard MK**, Panchal AR. National And Regional Variations In Paramedic Program Performance On The National Cognitive Examination. Prehospital Emergency Care. 2020. 24(1):100-156.
12. Cash RE, **Rivard MK**, Cortez E, Keseg D, Panchal AR. Cardiac Arrest Incidence, Bystander Cardiopulmonary Resuscitation Rates, And Community Characteristics Differ By High And Low Risk Areas. Circulation; American Heart Association. 2019. (Epub ahead of print)

Madison K. Rivard, MPH, NREMT

madisonrivard@gmail.com • (774) 277-1545

13. **Rivard MK**, Cash RE, Panchal AR. Dependence on Overtime or Multiple Jobs is Associated with Workforce-Reducing Factors among EMS Professionals. *Prehospital Emergency Care*. 2019; 23(1):101.
14. **Rivard MK**, Cash RE, Panchal AR. Characteristics of Nationally-Certified Prehospital Patient Care Providers in the United States. *Prehospital Emergency Care*. 2019; 23(1):110.
15. Cash RE, **Rivard MK**, Panchal AR. Characteristics of Volunteer Compared to Paid EMS Professionals in the United States. *Prehospital Emergency Care*. 2019; 23(1):121.
16. Cash RE, **Rivard MK**, Panchal AR. Characteristics and Spatial Distribution of Volunteer EMS Professionals in Massachusetts. *Prehospital Emergency Care*. 2019; 23(1):134.
17. Crowe RP, Cash RE, **Rivard MK**, Panchal AR, Studnek J, Dowbiggin P, Anderson SE, Hogan T, Andridge R, Ferketich A. Association Between Occupational Burnout and Turndown, Sickness Absence, and Injury Among EMS Professionals. *Prehospital Emergency Care*. 2019; 23(1):100.
18. Crowe RP, Cash RE, **Rivard MK**, Panchal AR, Fernandez A, Wronski R, Anderson SE, Hogan T, Andridge R, Ferketich A. Variation in Burnout Prevalence Across EMS Agencies in South Carolina and Associated Job Characteristics. *Prehospital Emergency Care*. 2019; 23(1):149.
19. Cash RE, Crowe RP, White-Mills K, **Rivard MK**, Panchal AR. Incivility among Nationally Certified EMS Professionals is Linked to Workforce-Reducing Factors. *Prehospital Emergency Care*. 2018; 22(1):102.
20. Cash RE, Crowe RP, **Rivard MK**, Larrimore A, Krebs W, Miller JD, Panchal AR. Characteristics of Emergency Medical Technician Graduates Unsuccessful on the National Certification Cognitive Examination. *Prehospital Emergency Care*. 2018; 22(1):118.
21. Cash RE, E Crowe, Crowe RP, **Rivard MK**, Knorr A, Panchal AR, Kupas D. Seatbelt Use by Ambulance Personnel in the Patient Compartment Is Low Regardless of Patient Presence, Seating Position, or Patient Acuity. *Prehospital Emergency Care*. 2018; 22(1):124.
22. Cash RE, Crowe RP, Kinsman JM, **Rivard MK**, Bryson D, Wijetunge G, Panchal AR. A National Description of the Use of Continuous Positive Airway Pressure in the Prehospital Setting. *Prehospital Emergency Care*. 2018; 22(1):131.
23. Crowe RP, Cash RE, **Rivard MK**, Campos A, Clemency B, Swor R, Ernest E, Panchal AR. Prehospital Delivery of Death Notifications Associated with Higher Rates of Occupational Burnout Among EMS Professionals. *Prehospital Emergency Care*. 2018; 22(1):101.
24. **Rivard MK**, Crowe RP, Cash RE, Miller JD, Panchal AR. Motivations for Exiting the EMS Profession Differ between EMTs and Paramedics. *Prehospital Emergency Care*. 2018; 22(1):103.

Madison K. Rivard, MPH, NREMT

madisonrivard@gmail.com • (774) 277-1545

25. **Rivard MK**, Cash RE, Crowe RP, Miller JD, Panchal AR. Characteristics Associated with Success on the National AEMT Certification Examination. *Prehospital Emergency Care*. 2018; 22(1):121.
26. Garner DG, DeLuca MB, Crowe RP, Cash RE, **Rivard MK**, Williams JG, Panchal AR, Cabanas JG. Are EMS Provider Characteristics Associated with Appropriate Responses during Violent Encounters? *Prehospital Emergency Care*. 2018; 22(1):104.
27. Campos A, Cash RE, Crowe RP, **Rivard MK**, Clemency B, Swor R, Panchal AR, Ernest E. Training in Prehospital Death Notifications Linked to Improved Provider Comfort and Preparation. *Prehospital Emergency Care*. 2018; 22(1):107.
28. Crowe RP, Cash RE, **Rivard MK**, Gilmore WS, Christgen A, Hilmas T, Varner L, Vogelsmeier A, Panchal AR. Psychometric Properties of a Survey on Patient Safety Culture (SOPS)-Based Tool for EMS. *Prehospital Emergency Care*. 2018; 22(1):108.
29. Krebs W, Crowe RP, Cash RE, **Rivard MK**, Larrimore A, Hamilton C, Panchal AR. Evaluating the Gender Gap in EMTs and Paramedics Obtaining National EMS Certification from 2007 to 2016. *Prehospital Emergency Care*. 2018; 22(1):124.
30. Larrimore A, Cash RE, Crowe RP, **Rivard MK**, Krebs W, Miller JD, Panchal AR. Characteristics of Paramedic Graduates Who Retest after an Unsuccessful Attempt on a National Cognitive Examination. *Prehospital Emergency Care*. 2018; 22(1):131.
31. DeLuca MB, Garner DG, Crowe RP, Cash RE, **Rivard MK**, Williams JG, Panchal AR, Cabanas JG. Development and validation of reality-based training scenarios simulating violent EMS encounters. *Prehospital Emergency Care*. 2018; 22(1):137.

Professional Service

Reviewed submission abstracts for National Association for Emergency Medical Services Physicians Annual Meeting- 2017, 2018, 2019

Reviewed submission abstracts for American Public Health Association- 2020

Manuscript Reviewer for Journal of Contemporary Medical Education- 2020

Manuscript Reviewer for Nature: Scientific Reports – 2020

Manuscript Reviewer for Prehospital Emergency Care – 2020